

W/

Bruce Wellman, Inc.

BERYLLIUM / MINING DIVISION

DOG M

Rec'd Jan. 20, 2000

Hogs Back Properties

M / 023 / 053



1999 ANNUAL REPORT of Mining Operations

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
Telephone: (801) 538-5291
Fax: (801) 359-3940

ANNUAL REPORT OF MINING OPERATIONS

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, as amended, and the General Rules as promulgated under the Utah Minerals Regulatory Program. An operator conducting mining operations under a Notice of Intention must file an annual operations and progress report (FORM MR-AR) with the Division.

I. GENERAL INFORMATION

1. Report Time Period: From (mo./yr.) Jan. 1999 To (mo./yr.) Dec. 1999
2. DOGM File Number: M/023/053
3. Mine Name: Hogs Back Mine Property
4. Mineral(s) Mined: (or permitted to mine): Bertrandite (beryllium)
5. Type of mine ☒ Surface Mine or ☐ Underground Mine
6. Legal Description (Location of Lands Affected):
See enclosed description...
_1/4, _1/4, Section _ , Township _ , Range _
_1/4, _1/4, Section _ , Township _ , Range _
_1/4, _1/4, Section _ , Township _ , Range _
7. Name of Operator or Company: Brush Wellman, Inc.
8. Permanent Address: P.O. Box 815
City, State, Zip: Delta, Utah, 84624
Phone: (801) 864-2701
9. Company Representative (or designated operator):
Name: Greg G. Hawkins
Title: Mine Manager
Business Address: P.O. Box 815
City, State, Zip: Delta, Utah 84624
Phone: (801) 864-2701 ext. 211

☒ Please check if any of the above information has changed since previous year.

II. MINING AND RECLAMATION

1. Was the mine active during the past year? Yes ☒ No ☐

RECEIVED

JAN 20 2000

**DIVISION OF
OIL, GAS AND MINING**

2. If no - what was the last year of activity?

3.

If yes - how much ore or mineral was mined? 9,856 Wet tons (delivered) (see 4.)

4. Briefly describe the type of work performed, volume of material moved, and new or additional surface disturbances that occurred during the past year.

The ore was removed from the Be No. 1 claim and placed on the top of the Brush Wellman's existing stockpile. Approximately 0.8 acres was disturbed from the removal of the Beryllium International ore stockpile.

5. How much **additional acreage** was disturbed during the past year? 0.8 new acres disturbed.

6. How much acreage was **reclaimed** during the past year? 5.6 acres reclaimed

7. Briefly describe the reclamation work performed during the past year. This description should include methods employed, and an evaluation of the results.

The progress of Reclamation treatment from 1997 on Hogs Back dump 2h: 1v slope is looking favorable. Refer to document dated December 7, 1999 for reclamation treatment.

8. What is the **total disturbed acreage of entire project** at year's end? 14 acres in plan view of State and Private land; with 8.1 acres pending release. A detailed survey using GPS on disturbance was done.

9. Briefly summarize any mining and/or reclamation plans for the upcoming year.

1) Haul stockpiled Hogs Back ore to process. Reclamation will commence after ore has been hauled to process. See letter dated December 17, 1999 for extension in time. Reclamation will consist of spreading topsoil over existing ore pad, seeding and fertilizing. Reclamation of the haul road will be the last to be reclaimed.

NOTE: Section III., "Additional Information" applies only to **large mining operations.**

III. ADDITIONAL INFORMATION

1. An updated surface facilities map should be attached if there have been significant changes since the previous map was submitted. "See map attached"

2. Any monitoring results or other reports that are required under the terms of the approved notice of intention should be attached.

IV. SIGNATURE REQUIREMENT

I hereby certify that the foregoing is true and correct.

Name (Typed or Print): Greg G. Hawkins

Title of Operator: Mine Manager

Signature of Operator:

Date: 1/10/2000

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ANNUAL REPORT OF MINING OPERATIONS (FORM MR-AR Revised 12/93)

Supplement to the report

1. Legal description of lands affected.
2. Letter of December 7, 1999 to Tom Munson of D.O.G.M., for reclamation treatment.
3. Letter of December 7, 1999 to Mr. Gerald Park of Beryllium International for **Mining Property Lease**.
4. Letter of December 27, 1999 to Mr. Greg Hawkins for extension request for the remaining reclamation on the Hogs Back property.
5. Seed mix for Hogs Back Reclamation.
6. Explanation of photos of reclamation work completed on Hogs Back pit area and Beryllium Internationals stockpile area.
7. Plat and photos of Hogs Back reclamation area.

**TOPAZ MINING PROPERTY
JUAB COUNTY, UTAH**

LEGAL DESCRIPTION OF LANDS AFFECTED

**SW 1/4 and SE 1/4 of Section 35, T12S, R12W SLBM and in Lot 2
and Lot 3 of Section 2, T13, R12W, SLBM.**

BRUSHWELLMAN
ENGINEERED MATERIALS

Brush Wellman Inc.
P.O. Box 815
Delta, Utah 84624
Phone 801/864-2701

December 7, 1999

Tom Munson
Permit Supervisor
State of Utah Department of Natural Resources
Division of Oil, Gas, and Mining
1594 West North Temple
Box 145801
Salt Lake City, UT 84114-5801

Dear Mr. Munson:

As of, November 10, 1999, reclamation work was completed on the Hogs Back pit area and the Beryllium International ore pile. Approximately 4,000 tons of topsoil was mixed with 300 tons of composted manure and spread with a 633D wheel tractor-scraper over the pit area. Some diversions were made and small animal habitat features were created. The Hogs Back pit and the Beryllium International ore pad were ripped then seeded by hand broadcasting. A sheep's foot compactor was pulled with a D8L bulldozer to create water pockets and get good seed-soil contact. Brush Wellman's standard seed mix for Hogs Back was utilized. Approximately 5.6 acres of the Hogs Back property was reclaimed this year.

Due to mill blending issues, the Hogs Back ore will take longer to process than originally anticipated. Therefore, Brush Wellman would like to ask for an extension of the remaining reclamation work, which includes the ore pad dump (at 3.6 acres), and the access road (at 1.6 acres).

In addition, eight (8) test plots have been constructed on the Rainbow dump. These plots were constructed to test the alluvial soils in the Rainbow 2 pit area for growth potential. Approximately 3,150 tons of manure was hauled to the mine site. This material will be composted and used for the future reclamation of the Rainbow 2 and Section 16 South pits. Additional information, details, photos and maps will be provided in the annual reports.

If you have any questions or comments please feel free to contact Clyde Yates at (435-864-5556 ex. 105) during business hours.

Sincerely,


Clyde Yates

Brush Wellman

CC: Greg Hawkins File Ron Teseneer (BLM)

BRUSHWELLMAN

ENGINEERED MATERIALS

Brush Wellman Inc.
P.O. Box 815
Delta, Utah 84624
Phone 801/864-2701

December 7, 1999

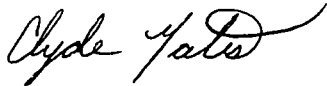
Mr. Gerald Park
8790 Blue Jay Lane
Salt Lake City, UT 84121

Dear Mr. Park::

This letter is to advise you that all ore removal and reclamation work on the Be No. 1 Claim has been completed as agreed upon in the **Mining Property Lease** dated March 17, 1999.

The ore was removed from the Be No. 1 claim and placed on the top of the Brush Wellman's existing stockpile. This stockpile consists of the remaining ore from the Hogs Back pit. All ores reside on the Hogs Back No. 2 patented mining claim and are ready for shipment to the mill. Approximately 0.78 acres was disturbed from the removal of the Beryllium International ore stockpile. The disturbed area was ripped, seeded with the standard seed mix in accordance with Brush Wellman's mine reclamation plan. A sheep's foot compactor was pulled with a D8L bulldozer to create water pockets and get good seed soil contact. We believe we have satisfied the terms of the lease with respect to the covenants of lessee 6.1 and paragraph (d) of the reclamation obligation.

Please feel free to contact Clyde Yates at 435-864-5556 ext. 105, or Greg Hawkins at 435-864-1211. Please call during regular business hours.



Clyde Yates
Brush Wellman

CC: Tom Munson

Greg Hawkins

Ron Teseneer

File



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

December 27, 1999

Mr. Greg Hawkins
Brush Wellman Inc.
P.O. Box 815
Delta, Utah 84624

Re: Reclamation Schedule, Brush Wellman Inc., Hogs Back Pit, M/023/053, Juab County, Utah

Dear Mr. Hawkins:

Thank you for your letter received December 10, 1999, regarding the reclamation updates on the two permits Brush Wellman is currently involved with (Hogs Back - M/023/053 and Topaz - M/023/003) and the Beryllium International ore pile (S/023/035). *The extension requested for the remaining reclamation on the Hogs Back property is approved per your request.*

The Division respects your timeliness in getting your reclamation accomplished and the degree of professionalism you and your company exhibit in all phases of your mining operation.

Happy Holidays to you and the rest of the Brush Wellman crew.

Sincerely,

Tom Munson
Reclamation Specialist
Minerals Reclamation Program

jb

cc: Ron Teseneer, BLM
Clyde Yates, Brush Wellman
file M/023/003
File S/023/035 (Beryllium Intl)
M023053.ltr

Memorandum

DATE: January 4, 2000

TO: Reclamation File

FROM: Clyde Yates

RE: Mine Plan Reclamation Work Done, Topaz
Mine, M/023/053, Juab County, Utah

CC: Greg Hawkins John Wagner
Don Mcmillan Dan Perry

Update From March 27, 1996 Report

The seeding of the Hogs Back **pit area** and the **Beryllium Internationals ore stockpile** area were completed on November 10, 1999. Approximately 5.6 acres of land was seeded by hand broadcasting. Standard seed mix for Hogs Back area from MRP permit # M/012/053 was applied. Approximately 78 pounds of mixed seed was ordered. Seed mix and poundage goes as follows per acre. Certification of seed mix is also included.

<u>Scientific Name</u>	<u>Common Name</u>	<u>lbs. used</u>
<u>Agropyron cristatum</u>	Crested Wheatgrass	3.0
<u>Sitanion hystrix</u>	Squirreltail	2.0
<u>Oryzopsis hymenoides</u>	Indian ricegrass	2.0
<u>Melilotus officinalis</u>	Yellow sweetclover	1.0
<u>Penstemon palmeri</u>	Palmer's penstemon	1.0
<u>Atriplex canescens</u>	Four-wing saltbush	2.0
<u>Atriplex confertifolia</u>	Shadscale	1.0
<u>Chrysothamnus viscidiflorus</u>	Green rabbitbrush	1.0
	<u>Total</u>	13.0 lb.p/ac

CUSTOMER: BRUSHWELLMAN INC.
MIXTURE NAME: HOGS BACK MIX #1
P.O. NUMBER: CLYDE YATES

LOT: #17536A

PURITY	MIXTURE CONTENTS	ORIGIN	GERM/HARD
21.98%	FAIRWAY CRESTED WHEATGRASS	UTAH	95%
15.38%	INDIAN RICEGRASS	* COLORA	96%
14.33%	FOURWING SALTBUSH	UTAH	43%
11.81%	BOTTLEBRUSH SQUIRRELTAIL	UTAH	92% + 2%
7.66%	YELLOW BLOSSOM SWEET CLOVER, MADRCANADA	UTAH	77% + 11%
7.58%	PALMER PENSTEMON	UTAH	81%
7.27%	SHADSCALE SALTBUSH	UTAH	46%
3.44%	GREEN RABBITBRUSH	UTAH	55%

0.36% CROP 10.11% INERT OLDEST TEST DATE: 10/98
0.08% WEED NO NOXIOUS WEEDS FOUND

NET WEIGHT 50.00 LBS.

Part 1 of 2

lot number 17536A continued

SHIP TO: BRUSHWELLMAN INC., CLYDE YATES
MINE SITE
47 WEST ON BRUSHWELLMAN ROAD
TOPAZ MOUNTAIN, DELTA, UT 84624

Part 2 of 2

CUSTOMER: BRUSHWELLMAN INC.
MIXTURE NAME: HOGS BACK MIX #1
P.O. NUMBER: CLYDE YATES

LOT: #17536A

PURITY	MIXTURE CONTENTS	ORIGIN	GERM/HARD
21.98%	FAIRWAY CRESTED WHEATGRASS	UTAH	95%
15.38%	INDIAN RICEGRASS	COLORA	96%
14.33%	FOURWING SALTBUSH	UTAH	43%
11.81%	BOTTLEBRUSH SQUIRRELTAIL	UTAH	92% + 2%
7.66%	YELLOW BLOSSOM SWEET CLOVER, MADRCANADA	UTAH	77% + 11%
7.58%	PALMER PENSTEMON	UTAH	81%
7.27%	SHADSCALE SALTBUSH	UTAH	46%
3.44%	GREEN RABBITBRUSH	UTAH	55%

0.36% CROP 10.11% INERT OLDEST TEST DATE: 10/98
0.08% WEED NO NOXIOUS WEEDS FOUND

NET WEIGHT 28.00 LBS.

Part 1 of 2

lot number 17536A continued

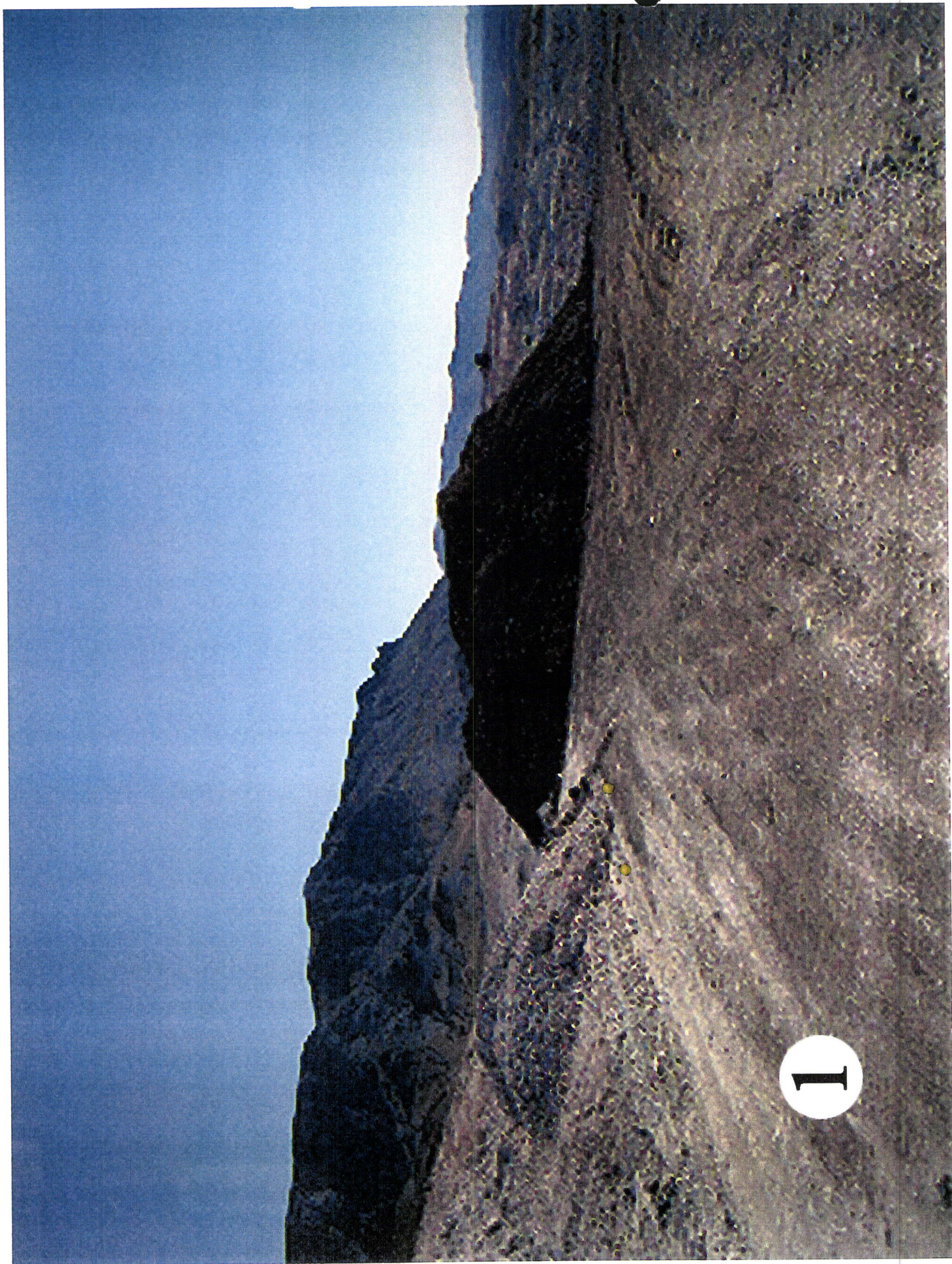
SHIP TO: BRUSHWELLMAN INC., CLYDE YATES
MINE SITE
47 WEST ON BRUSHWELLMAN ROAD
TOPAZ MOUNTAIN, DELTA, UT 84624

Part 2 of 2

Explanation of photos

M/023/053

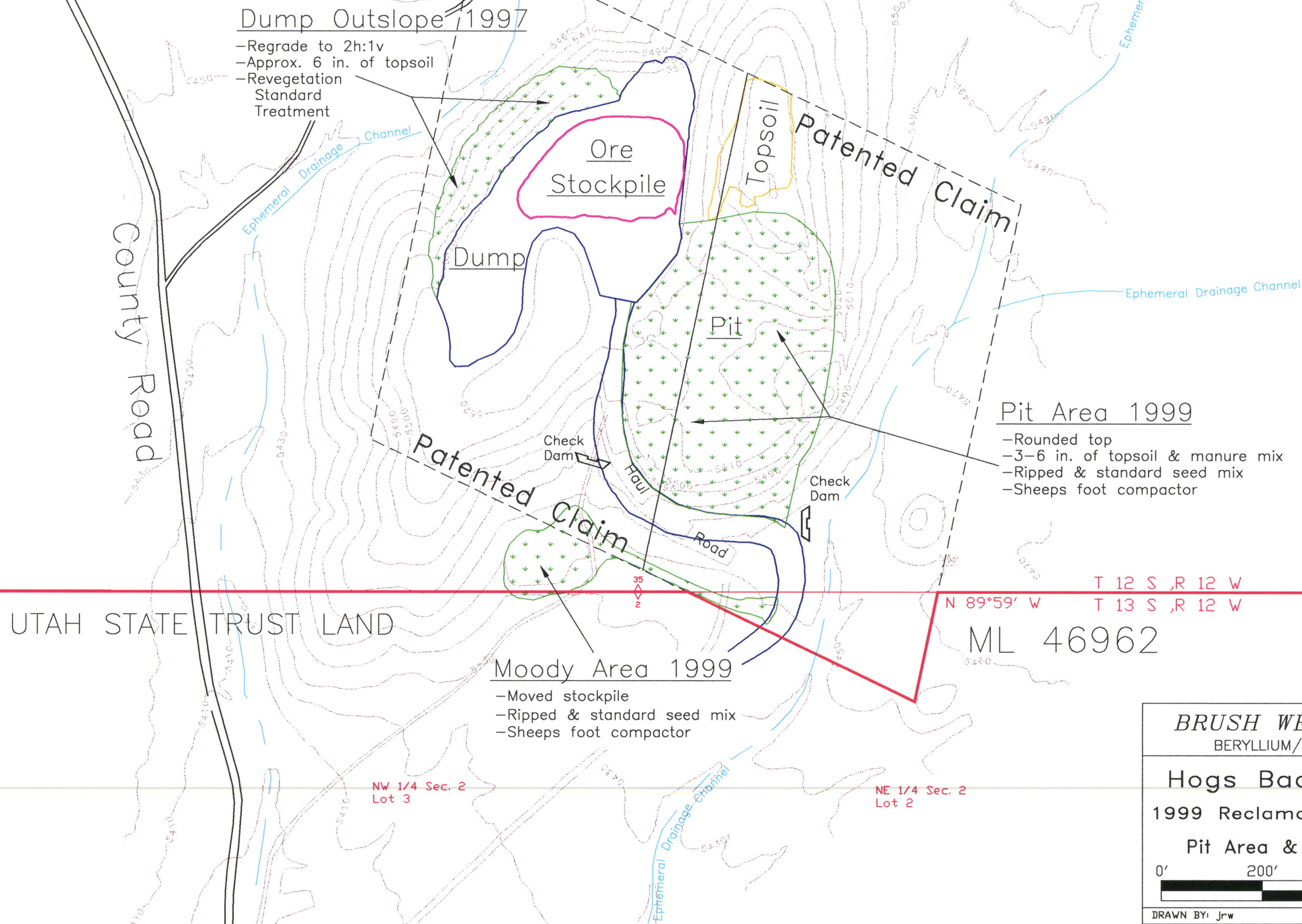
- PHOTO # 1** Depicting approximately 300 tons of composted manure to be mixed with approximately 4,000 tons of the Hogs Back topsoil stockpile and placed 3 to 6 inches over the Hogs Back pit area.
- PHOTO # 2** Depicting scraper mixing manure and topsoil to be spread at 3 to 6 inches over Hogs back pit area.
- PHOTO # 3** Depicting D8L bulldozer ripping surface after topsoiling of Hogs Back pit area.
- PHOTO # 4** Depicting the sheeps foot compactor drilling seed for seed soil contact after hand broadcasting of standard seed mix designed for the Hogs Back project.
- PHOTO # 5** Depicting before any reclamation commenced on Hogs Back pit area. Photo taken by John Wagner.
- PHOTO # 6** Depicting after topsoil placement and the reclamation was completed in November 1999. Photo taken by John Wagner.
- PHOTO # 7** Depicting Llama grazing on reclaimed 2H:1V side slope of Hogs Back overburden pile. Photo taken by Clyde Yates March 2, 1999.











Dump Outslope 1997

- Regrade to 2h:1v
- Approx. 6 in. of topsoil
- Revegetation Standard Treatment

Ore Stockpile

Dump

Pit

Topsoil

Patented Claim

Patented Claim

Check Dam

Haul Road

Check Dam

Pit Area 1999

- Rounded top
- 3-6 in. of topsoil & manure mix
- Ripped & standard seed mix
- Sheeps foot compactor

UTAH STATE TRUST LAND

Moody Area 1999

- Moved stockpile
- Ripped & standard seed mix
- Sheeps foot compactor

NW 1/4 Sec. 2
Lot 3

NE 1/4 Sec. 2
Lot 2

T 12 S , R 12 W
T 13 S , R 12 W
N 89°59' W

ML 46962

BRUSH WELLMAN, INC.
BERYLLIUM/MINING DIVISION

Hogs Back Project
1999 Reclamation Treatment
Pit Area & Moody Area



DRAWN BY: Jrw DATE: Jan. 14, 2000
DRAWING: j:\acad\reclaim\hogrec99